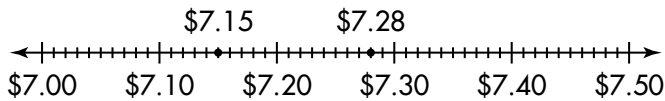


Homework & Practice 12-3

Compare Decimals

Another Look!

Patrick collected change for charity. On Friday, he collected \$7.28. On Saturday, he collected \$7.15. On which day did Patrick collect more money? Use a number line to compare the amounts.



Because \$7.28 is farther to the right on the number line, it is the greater number.

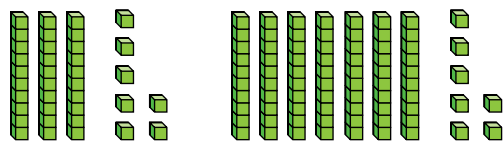
So, $\$7.28 > \7.15 .

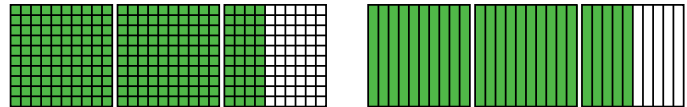
Patrick collected more money on Friday.

There are different ways to compare decimals.



For 1–11, write $>$, $<$, or $=$ in each . Use place-value blocks, grids, or number lines to help as needed.

1.  0.37 0.77

2.  2.40 2.5

3. 0.6 0.55

4. 0.2 0.20

5. 0.68 0.59

6. $\$10.45$ $\$10.54$

7. 0.99 1.0

8. 0.05 0.04

9. 4.1 4.10

10. 6.44 6.4

11. $\$0.93$ $\$0.39$

For 12–20, write a decimal to make the comparison true.

12. _____ $>$ 1.45

13. $7.8 =$ _____

14. _____ $>$ 4.42

15. $29.20 >$ _____

16. $8.99 <$ _____

17. $13.41 =$ _____

18. $22.18 <$ _____

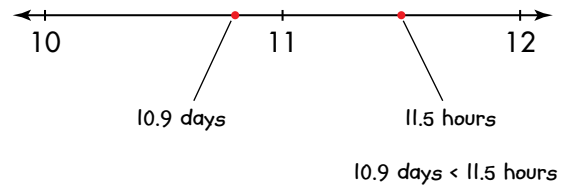
19. _____ $>$ 3.48

20. $9.4 >$ _____

21. Maria told Patrick that her quarter weighs less than what a nickel weighs because 0.2 has fewer digits than 0.18. How can Patrick show Maria that 0.2 is greater than 0.18?



22. © **MP.3 Construct Arguments** Kimmy drew the number line below and wrote the comparison shown. Is her comparison correct? Explain?



23. **A-Z Vocabulary** Use a vocabulary term to make the sentence true.

In 37.2, the ones place and the tenths place are separated by a _____.

24. **Higher Order Thinking** Tamar is thinking of a number in the hundredths. Her number is greater than 0.8 and less than 0.9. The greatest digit in the number is in the hundredths place. What number is Tamar thinking of? Explain.

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25. Andy mailed two packages. The first package weighed 2.48 pounds, and the second weighed 2.6 pounds. Andy said, "The first package will cost more to send because it weighs more."

Part A

What mistake could Andy have made?
What can he do to correct it?

Part B

Andy mailed a third package weighing 2.5 pounds. Did the third package weigh more or less than the first package? Describe how you would use place-value blocks to compare the weights.